

F/G. 1

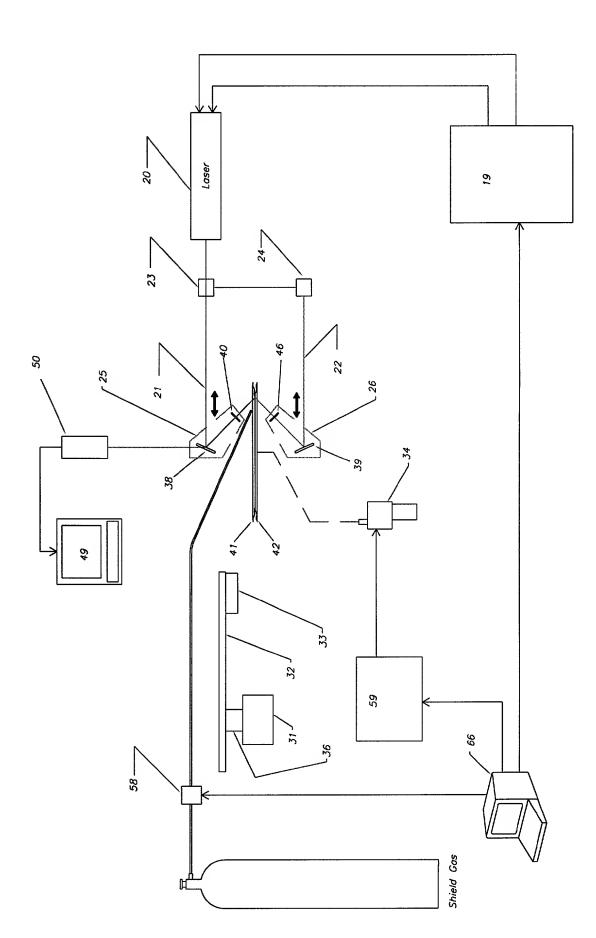
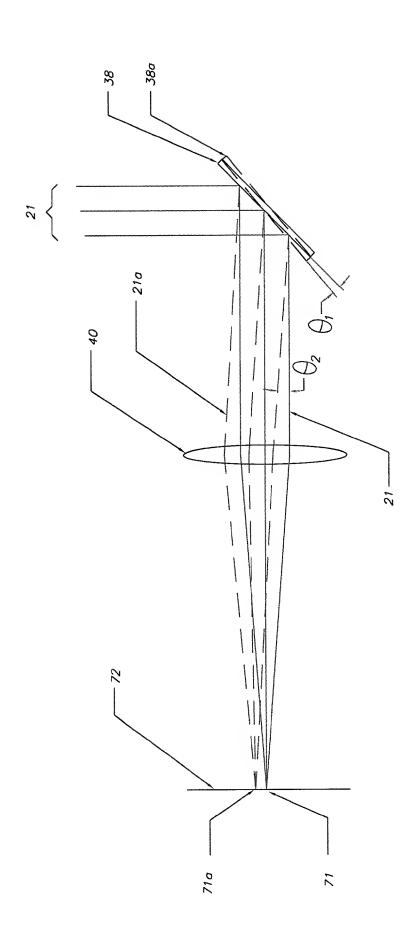
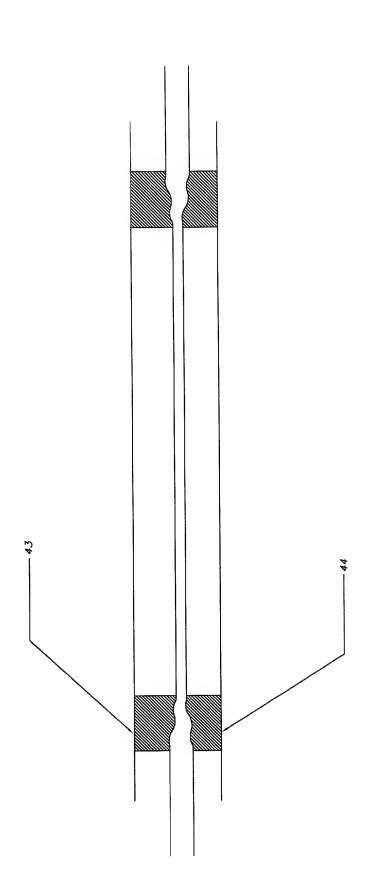


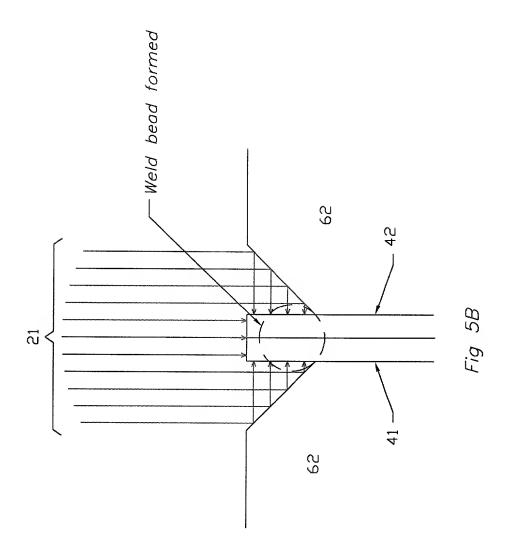
FIG 2



F1G 3



F1G 4



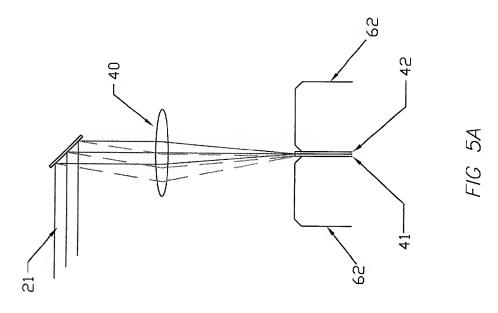


FIG. 6B

FIG. 6A

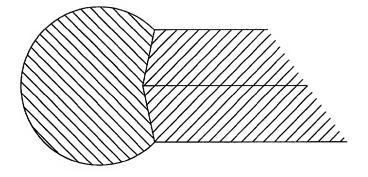


Fig. 7B

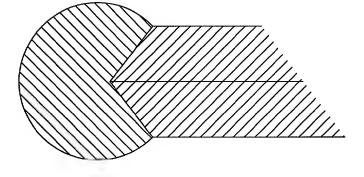


Fig. 7A

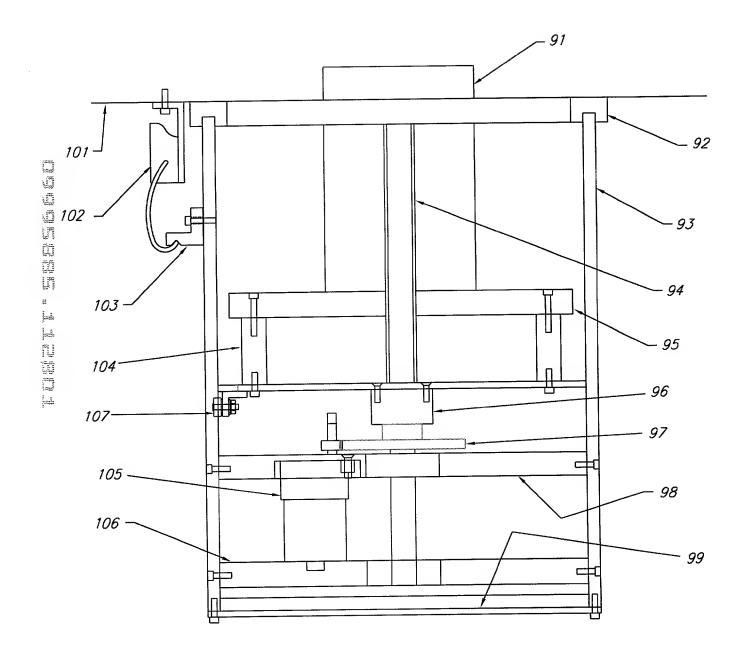
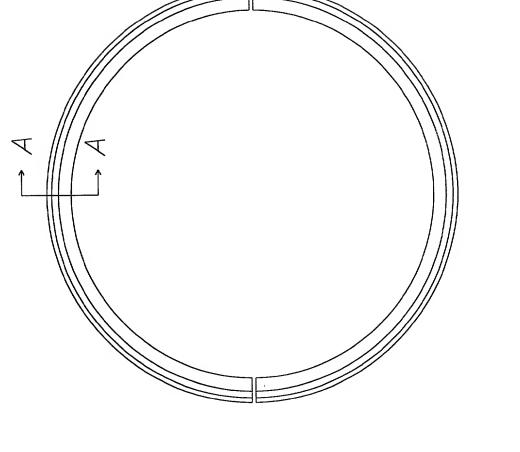


Fig. 8



Section A-A

F1G 9A

FIG 9B

Molten beads may not run together, forming incomplete weld

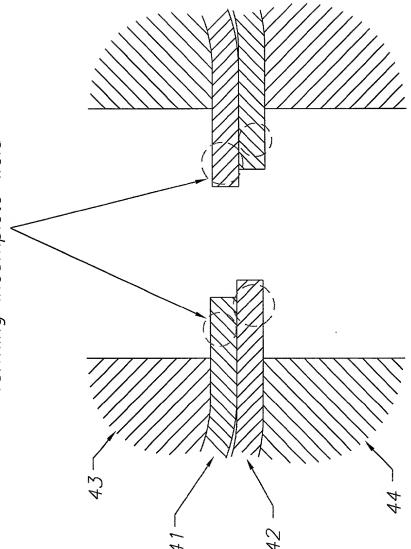


FIG 10

Clamp 12t -Area of Circle $Ac = 2\pi * t^2$ $H = \frac{3/2\pi *t^2 + t^2}{2t}$ H*2t = AW

Area of Triangle $At = t^{2}$ Area of Pie Ap = 1/4 Ac - At $= 1/2\pi * t^{2} - t^{2}$

 $H = \left(3/4\pi + 1/2\right)t$

H = 2.856t

Hd = 0.441t Welded area (Ac-Ap) Aw = $2\pi * t^2 - 1/2\pi * t^2 + t^2$

 $Hd+\sqrt{2}*t+t = H$

 $Hd = H - \sqrt{2} * t - t$

Fig. 11